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| 09/733,480 | 12/07/2000 | William C.Y. Lee | G&C 139.146-US-U1 | 2461 |
| 22462 | 7590 05/19/2005 | | EXAMINER | |
| GATES & COOPER LLP HOWARD HUGHES CENTER 6701 CENTER DRIVE WEST, SUITE 1050 | | | TSEGAYE, SABA | |
| | | | ART UNIT | PAPER NUMBER |
| | LES, CA 90045 | 2662 | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | |
|--|--|---|---|--|--|
| | | 09/733,480 | LEE ET AL. | | |
| | Office Action Summary | Examiner | Art Unit | | |
| | | Saba Tsegaye | 2662 | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| THE - Exte after - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b). | N. 1.136(a). In no event, however, may a reply be tin reply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | |
| Status | | | | | |
| 1)⊠ | 1) Responsive to communication(s) filed on <u>07 April 2005</u> . | | | | |
| 2a) | This action is FINAL . 2b)⊠ TI | his action is non-final. | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | |
| Disposit | ion of Claims | | | | |
| 5)□ 6)⊠ 7)□ | | | | | |
| Applicati | ion Papers | | | | |
| 10) | The specification is objected to by the Exami The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the | ccepted or b) objected to by the lead of the lead of the lead of the drawing(s) be held in abeyance. See the drawing(s) is objection is required if the drawing(s) is objected. | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | |
| Priority (| ınder 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachmen | t(s) | | | | |
| 2) Notice 3) Inform | e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Do 08) 5) Notice of Informal F 6) Other: | | | |

DETAILED ACTION

Response to Amendment

1. This Office Action is in response to the amendment filed on 04/07/05. Claims 1-24 are pending. Currently no claims are in condition for allowance.

Claim Rejections - 35 USC § 102

2. Claims 17-19 and 21-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Palermo (US 6,181,734).

Regarding claims 17 and 21, Palermo discloses, in Figs. 4, 8 and 9, a method for tunneling voice data over one or more networks (column 1, lines 4-7), comprising;

loading one of a plurality of vocoders into a processor (403) of a called party's handset (receiver, see abstract; column 1, lines 4-14), wherein the loaded vocoder is selected based on a particular type of network communicating with a calling party's handset (transmitter, see abstract) (column 1, lines 56-63; column 5, lines 38-49); and

executing the loaded vocoder in the processor of the called party's handset, wherein the vocoder translates voice data communicated to the called party's handset from the calling party's handset (column 5, line 56-column 6, line 11; column 7, lines 5-20).

Regarding claims 18 and 22, Palermo discloses the method wherein the voice data is tunneled from the calling party's handset and the calling party's network, through any number of different networks (column 1, lines 4-7), to the called party's network and called party's handset, without any vocoding conversions except at the handset (column 4, line 50-column 5, line 12).

Regarding claims 19 and 23, Palermo discloses, in Fig 8, the method wherein the vocoder (819) is stored a component of the handset and is loaded into the processor from the component (column 5, lines 31-51).

Claim Rejections - 35 USC § 103

3. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sieppi (US 6,577,637) in view of Palermo.

Regarding claims 1, 3, 5, 7, 9, 11, 13 and 15, Sieppi discloses a method for tunneling voice data over one or ore networks, comprising: sending a call set-up message from the first or second subscriber station to a switching means of the mobile radio communication network to setup a call between the first and second subscriber stations; determining on the basis of the call setup message whether the second subscriber station is of a type also comprising an audio data encoding/decoding means and setting up a call between the first and second subscriber station. Further, Sieppi discloses that if the second subscriber station is not capable of performing the speech encoding decoding then the subscriber station type determining means switches on an audio data encoding/decoding means in a base station controller.

However, Sieppi does not expressly disclose loading a software-defined vocoder into the called party.

Palermo teaches loading one of a plurality of software-defined vocoders into the called party (column 3, lines 60-64; column 5, line 26-column 6, line 11). Further, Palermo teaches that

a radio user or operator selects stored waveform on demand as communications requirement dictate.

It would have been obvious to one ordinary skill in the art at the time the invention was made to use the teachings from Palermo of loading a software defined vocoder to the second subscriber station disclosed by Sieppi.

One of ordinary skill in the art would have been motivated to do this because loading a software vocoder into the called party avoids deterioration of the speech quality due to performing unnecessary audio data encoding/decoding and to provide a radio which is useable as a generic radio platform with existing vocoders and yet to be developed vocoders.

Regarding claims 2, 6, 10 and 14, Sieppi discloses the method wherein the voice data is tunneled from the calling party's handset and the calling party's network, through any number of different networks, to the called party's network and called party's handset, without any vocoding conversions except at the handset (column 5, line 65-column 6 line 24).

Regarding claims 4, 8, 12 and 16, Sieppi discloses the method wherein the notification is transmitted during call setup (column 5, line 65-column 6 line 24).

4. Claims 20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palermo in view of Hsu.

Palermo discloses all the claim limitations as stated above except for vocoder is downloaded from a network component into a processor of the handset.

Hsu teaches that a vocoder in the handset may be updated from a web site.

It would have been obvious to one ordinary skill in the art at the time the invention was made to use the teachings from Hsu of loading a software-defined vocoder from the network component to the handset disclosed by Palermo.

One of ordinary skill in the art would have been motivated to do this because loading a software vocoder from the network into the called party provides minimal modification to existing digital wireless telephone system infrastructure components, including digital telephones (column 3, lines 60-62).

Response to Arguments

5. Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

Examiner believes that the Palermo reference still reads on the claim invention. Applicant argues (Remarks, page 10-11) that Palermo does not suggest loading one of a plurality of vocoders into a processor of a called party's handset based on a particular type of vocoder used with a calling party's handset. The Palermo reference clearly discloses a communication between a transmitter and a receiver that can be read as a **called party** and a **calling party**. All processing of the information between reception and reproduction of speech and reception and transmission of radio frequency signal respectively is preformed in software. Further, Palermo discloses that the operation of the system of Fig. 8 is the same whether operating as receiver, transmitter or transceiver. The user or the operator selects (for example at a receiver) the waveform or waveforms that are to be used. In addition the operator or the user may switch from

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one waveform mode to another to communicate over different radio networks (a particular type of network (see column 1, line 55-column 2, line 8)). The same vocoder that is used at the transmitter has to be used at the receiver or the network will not work.

Further, the Applicant argues that Seippi does not teach transmitting a notification to a called party's network that a calling party's handset is calling from a particular type of network and switching of a plurality of vocoders in the handset or any loading of a selected vocoder for execution in the handset. Examiner respectfully disagrees. It is respectfully submitted that the rejection is based on the combined teaching of the Seippi and Palermo references. Seippi teaches sending a call set-up message to setup a call between the first and second subscriber station and determining the type of network of the second station based on the call setup message. Palermo teaches selection or switching of a plurality of vocoders in the handset, as stated above, to match the vocoder used at the transmitter, so that the same vocoder is used at both the transmitter (calling) and receiver (called).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saba Tsegaye whose telephone number is (571) 272-3091. The examiner can normally be reached on Monday-Friday (7:30-5:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ST

May 12, 2005

JOHN PEZZLO PRIMARY EXAMINER